

پاراها تکیه - باز در مسر A - تکلیف 17

$$m = \frac{0y}{0x} = \frac{m-k}{c-(-2)} = \frac{m-k}{c} = -\frac{1}{c} \Rightarrow m-k = -c$$

$$\Rightarrow |m-k| = c = 0y$$

(1) (2)

$$AB = \sqrt{(0x)^2 + (0y)^2} = \sqrt{(y)^2 + (x)^2} = \sqrt{5} \Rightarrow \boxed{S = 5} \checkmark$$

$$AB = \sqrt{(0x)^2 + (0y)^2} = \sqrt{(x)^2 + (y)^2} = \boxed{5} \checkmark$$

$$m_{AB} = m_{CD} = -\frac{r}{c} = \frac{r}{-1-rx} \Rightarrow -1-rx = -c \Rightarrow \boxed{x = \frac{r}{c}} \Rightarrow C(\frac{r}{c}, y) \quad D(-\frac{r}{c}, y+c)$$

$$m_{BC} \times m_{CD} = -1 \Rightarrow m_{BC} = \frac{r}{c} = \frac{y-1}{x} \Rightarrow \frac{r}{c} = \frac{r(y-1)}{x} \Rightarrow (y-1) = -r \Rightarrow \boxed{y = -1}$$

$$\Rightarrow C(\frac{r}{c}, -1) \quad D(-\frac{r}{c}, r)$$

$$BC = \sqrt{(0x)^2 + (0y)^2} = \sqrt{(\frac{r}{c})^2 + (r)^2} = \boxed{\frac{r}{c}} \checkmark$$

$$\Rightarrow \text{مساحت} = r \times (\frac{r}{c} + r) = \boxed{1d} \checkmark$$

$$y = \left\{ \left(\frac{-rm}{m^2-1} \right) x + \frac{r}{m^2-1} \right\} \Rightarrow \frac{-rm}{m^2-1} = \sqrt{3} \Rightarrow 53m^2 + 2m - \sqrt{3} = 0$$

$$a = \tan \alpha = \sqrt{3}$$

$$|m_r - m_l| = \frac{50}{1a} = \frac{\sqrt{4+12}}{\sqrt{3}} = \frac{4}{\sqrt{3}} = \boxed{\frac{4\sqrt{3}}{3}} \checkmark$$

$$BC: y = rx - r = y - rx + r = 0$$

$$m = \frac{0y}{0x} = \frac{11-r}{v-r} = \frac{1}{c} \Rightarrow y = rx + b \Rightarrow c = b + b = -3$$

$$AH = \frac{|9-r+r|}{\sqrt{(1)^2 + (-1)^2}} = \frac{10}{\sqrt{2}} = \boxed{2\sqrt{5}} \checkmark$$

$$AB = BC \Rightarrow -rx + v = \frac{r}{c}x - \frac{1}{c} \Rightarrow \frac{11}{r}x = \frac{r}{c} \Rightarrow \boxed{x = \frac{r}{c}} \Rightarrow \boxed{y = 1}$$

$$BH = \frac{|r-1-1v|}{\sqrt{(c)^2 + (-1)^2}} = \frac{28}{d} = \boxed{17d} \checkmark$$

$$\frac{x}{-\frac{r}{c}} + \frac{y}{-\frac{r}{c}} = 1 \Rightarrow -rx - \frac{r}{c}y = \frac{9}{r} \Rightarrow \frac{n=y}{-r} \Rightarrow -\frac{rv}{c}x = \frac{9}{r} \Rightarrow \boxed{x = \frac{r}{c}} \Rightarrow \boxed{y = -\frac{r}{c}}$$

$$\boxed{\frac{r}{c}} \checkmark$$

$$d_1: y = ax + 1$$

$$d_2: y = \frac{1}{a}x + \frac{a-1}{a}$$

$$\Rightarrow a = \frac{1}{a} \Rightarrow a^2 = 1 \Rightarrow a = \pm 1$$

$$a = 1 \Rightarrow \begin{cases} d_1: y = x + 1 \\ d_2: y = x \end{cases}$$

$$a = -1 \Rightarrow \begin{cases} d_1: y = -x + 1 \\ d_2: y = -x + r \end{cases}$$

$$d_1: y = x + 1$$

$$d_2: y - x = 0$$

$$\Rightarrow \frac{|1-0|}{\sqrt{1+1}} = \frac{1}{\sqrt{2}} = \boxed{\frac{\sqrt{2}}{2}} \text{ (I)}$$

$$\frac{\sqrt{2}}{2} \Rightarrow \sqrt{2d} - \frac{1}{c} = \sqrt{\frac{r}{c}} = \boxed{\frac{\sqrt{2r}}{c}} \text{ (II)}$$

$$\Rightarrow \frac{\sqrt{2r}}{c} \times \frac{\sqrt{2r}}{c} = \boxed{2d} \checkmark$$

